● BLAUPUNKT FARBFERNSEHER

BOSCH Group

Chassis

FM 120

7 662 . . . / 7 663 . . .
7 664 . . .

Schaltbild · Schematic · Schema

Für das Bedienteil siehe separate Schrift	For control unit refer to separate service manual	Per il sezione di comando vedi istruzioni separate

Corona T 16 Color
Arkona T 16 Color
Lissabon IL 32 Color
Lissabon IL 32 Color VT
Kopenhagen IL 32 Color
Kopenhagen IL 32 Color VT
Korfu IL 32 Color
Colombo IL 32 Color
Oregon IM 32 Color
Missouri IM 32 Color
California IM 32 Color
Mississippi IM 32 Color
Roma IS 32 Color
Alaska IS 32 Color
Alaska IS 32 Color VT
Malta IS 32 Color
Montana IS 32 Color VT
Granada IS 32 Color
Rio IS 32 Color
Los Angeles IS 32 Color
Sansibar IS 32 Color
San Remo IS 32 Color
Madagaskar IS 32 Color
Madagaskar IS 32 Color PSO
CTV 5621
CTV 6721
Sumatra IS 32 Color
Alabama IS 32 Color
Alabama IS 32 Color VT
TeleVideo 1322
TeleVideo 2322
Toskana IS 32 Color
Sansibar IP 32 Color
CTV 5621 IP 32 Color
Malta IP 32 Color
Roma IP 32 Color
Tele-Audio 6300 Color
Venezia IP 32 Color
Locarno IP 32 Color
CTV 6721 IP 32 Color
Rio IP 32 Color
Pasadena IP 32 Color
TeleVideo 1301
TeleVideo 2424
Sumatra IP 32 Color
Madagaskar IP 32 Color
Toskana IP 32 Color
Montana IP 32 Color VT
Palermo IP 32 Color
Cardona IP 32 Color
Menorca IP 32 Color
Madagaskar Btx
Marbella MP 14 Color
Torino MP 14 Color
Tarragona MP 14 Color
Salerno MP 14 Color
Brasilia MP 14 Color
Catania MV 24 Color
Oregon EP 24 Color
Missouri EP 24 Color
Mississippi EP 24 Color
Corona ET 24 Color
Arkona ET 24 Color
CTV 5642 SP 34 Color
Roma SP 34 Color
Riviera SP 34 Color
CTV 6742 SP 34 Color
Rio SP 34 Color
Malaga SP 34 Color
Valencia SP 34 Color
Valencia SP 34 VT Color
Pasadena SQ 14 Color
Monza SQ 14 Color
Columbia SQ 14 VT Color
Casablanca SQ 14 Color
Palermo SP 14 Color
Verona SP 14 Color
Tarragona MP 15 Color
Brasilia MP 15 Color
Valencia SP 35 VT Color
Casablanca SQ 15 VT Color

Blaupunkt-Geräte tragen des VDE-Zeichen und erfüllen daher die einschlägigen VDE-Bestimmungen. Um die Sicherheit der Geräte zu erhalten, müssen die mit einem solchen Symbol in den Kundendienst-Unterlagen gekennzeichneten Bauelemente durch Originalteile ersetzt werden.

Achtung! Nach optimalen Einstellungen im Bildröhrenwerk bilden Bildröhre und Ablenksystem eine festverbundene Einheit. Es erlischt die Bildröhren-Garantie, wenn
- die Lage des Ablenksystems oder der Korrekturmagnete verändert wird.
- Befestigungsmuttern oder Versiegelungen gelöst werden.

Blaupunkt sets are provided with the VDE sign, thus fulfilling the VDE regulations. In order to maintain the safety of the sets, the components marked with a suchlike symbol in the service manuals must be replaced by original parts.

Note! After optimum adjustments in the picture tube factory, picture tube and deflection yoke represent a firmly connected unit.
Picture tube warranty is expiring in case
- the position of the deflection yoke or the correction magnets is changed,
- mounting nuts or sealings are loosened.

Gli apparecchio portano il marchio VDE e quindi-corrispondono alle norme VDE. Per garantire la sicurezza degli apparecchio, i componenti contrassegnati con il simbolo sulle instruzioni di manutenzione devono essere sostituti con componenti originali.

Attenzione: Dopo regolazione ottimale, il cinescopio ed il gruppo di deflessione formano un sistema unico. E' quindi vietato:
- spostare i componenti posti sul collo del cinescopio.
- allentare le viti di tali componenti.

Blaupunkt-Werke GmbH · Hildesheim
Mitglied der Bosch-Gruppe

Änderungen vorbehalten
Gedruckt in der Bundesrepublik Deutschland
bei Druckhaus Gebrüder Gerstenberg

BP/KDB 6 D84 264 060
Ausgabe 542

Service-Einstellungen

Die Service-Einstellungen nur am betriebswarmen Gerät vornehmen.

Einstellung Spannung U 28, U 34, U 29
U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V

Sender empfangen. Kontrast und Helligkeit auf Minimum einstellen. Röhrenvoltmeter an Meßpunkt 534 und Masse. Mit R 420 Spannung einstellen.

Bildhöhe
Mit R 734 einstellen.

Bildbreite
Mit R 742 oder L 772 einstellen.

Ost-West-Entzerrung
Mit R 737 einstellen.

Bildlage (vertikal)
Mit R 729 einstellen.

Bildlage (horizontal)
Verschiebung durch Auftrennen der Dioden D 778 (nach links) oder D 777 (nach rechts).
Es darf jeweils nur eine Diode aufgetrennt werden.

Horizontal-Synchronisation
MP 800 gegen Masse kurzschließen. Mit R 697 die Horizontalfrequenz auf Schwebung einstellen. Nach Aufhebung des Kurzschlusses muß das Bild einwandfrei stehen.

Schärfe (Fokus)
Mit R 785 einstellen.

Service Adjustments

The service adjustments may be carried out at a set warmed up to normal operating temperature only.

Adjustment voltage U 28, U 34, U29
U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V

Receive transmitter. Set contrast and brightness to minimum. VTVM to measuring point 534 and ground. With R 420 adjust voltage.

Picture height
With R 734, adjust.

Picture width
With R 742 or L 772, adjust.

East-West equalizer
With R 737, adjust.

Centering (vertical)
With R 729, adjust.

Centering (horizontal)
Displacement by opening the diodes D 778 (to the left) and D 777 (to the right).
In any case, only one diode must be eliminated.

Horiz. Synchronization
Shortcircuit MP 800 against ground. With R 697 adjust Horizontal frequency to beat. After removing the shortcircuit, the picture must be stable perfectly.

Definition (Focus)
With R 785, adjust.

Regolazioni di servizio

Le regolazioni di servizio possono iniziarsi solo ad apparecchio coldo.

Regolazione della tensione U 28, U 34, U 29
U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V
Ricevere una emittente. Contrasto e luminosità regolati per il minimo. Voltmetro elettronico fra massa e il punto di misura 534. Regolare la tensione con R 420.

Ampiezza
Regolare con R 734.

Larghezza del riquadro
Regolare con R 742 o L 772.

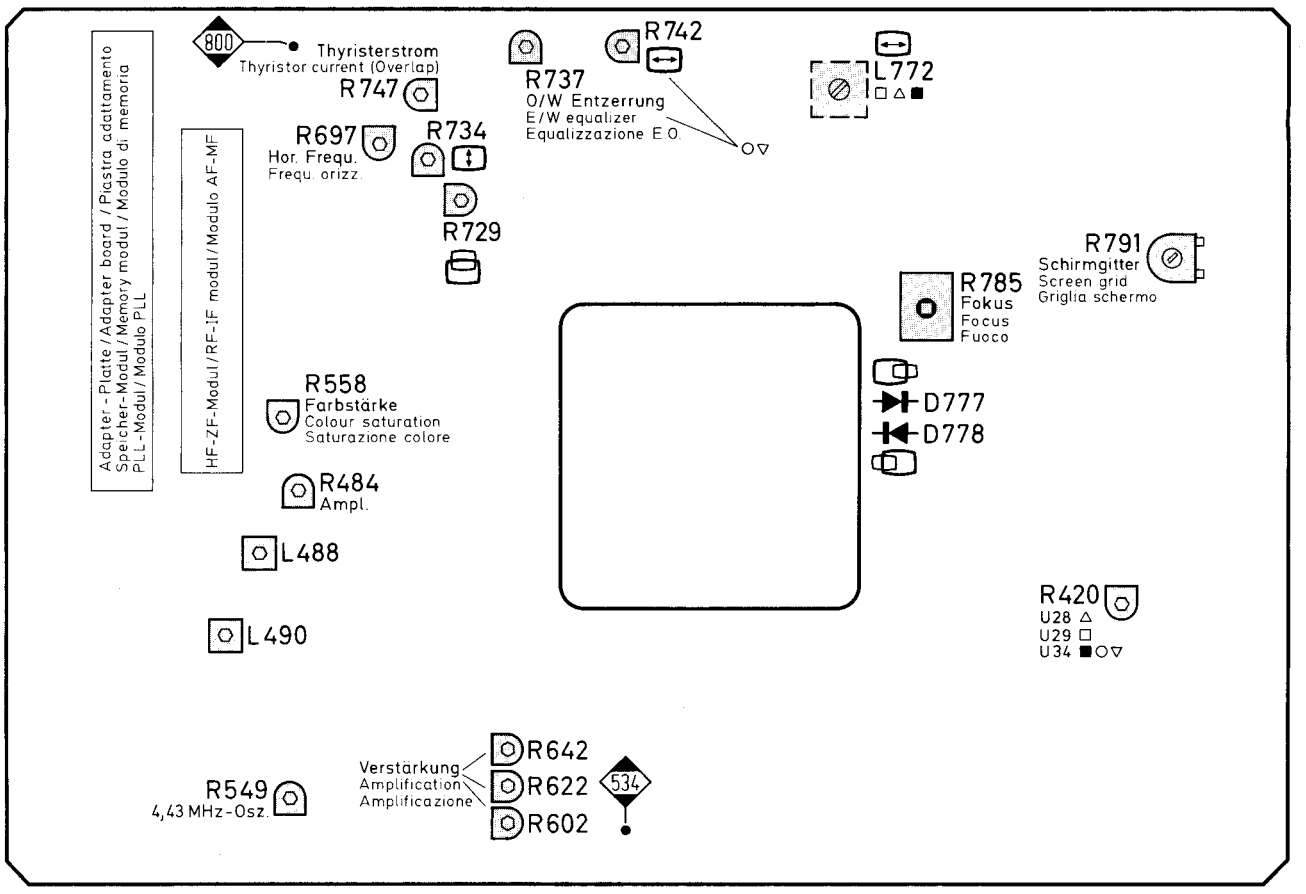
Equalizzazione EST — OVEST
Regolare con R 737

Centratura (verticale)
Regolare con R 729.

Centratura (orizzontale)
Spostamento verso sinistra o verso destra staccando i diodi D 778 o D 777. Questo si può effettuare staccando solo un diodo di volta in volta.

Frequenza (orizzontale)
Collegare a massa il punto di misura MP 800. Regolare la frequenza orizzontale con R 697 (modulo osc. orizzontale). Togliendo il collegamento di massa il quadro deve rimanere assolutamente stabile.

Nitidezza (Fuoco)
Regolare con R 785.



F3500

Einstellungen nach IC-Wechsel

V 500/TDA 3300 (Luminanz/Chroma)

a) 4,43-MHz-Oszillator
V 500/Pin 5 mit Pin 39 verbinden.
Kond., 0,1µF, von Pin 8 nach Pin 13.
Möglichst kurze Verbindungen.
Farbtestbild empfangen. Antennensignal abschwächen.
Mit R 549 Farbbalken auf Schwebung einstellen.
Verbindungen aufheben.

b) PAL-Laufzeit-Demodulator
mit R 484 „+ V"-Feld auf minimale Palousie einstellen.
Mit L 488 und L 490 wechselseitig „(G–Y)=0"-Feld auf minimale Palousie einstellen.
Die Kerne sollen ungefähr gleich tief in die Spulen eintauchen.

Adjustments after replacing Ic or Hybrams.

V 500/TDA 3300 (luminance/chroma)

a) 4,43 MHz reference oscillator
Connect a short wire jumper between pin 5 und pin 39 and a capacitor of 0,1µF between pin 8 and pin 13.
Receive an attennuated colour test pattern.
Adjust with R 549 to colour beat.
Disconnect the above-mentioned connections.

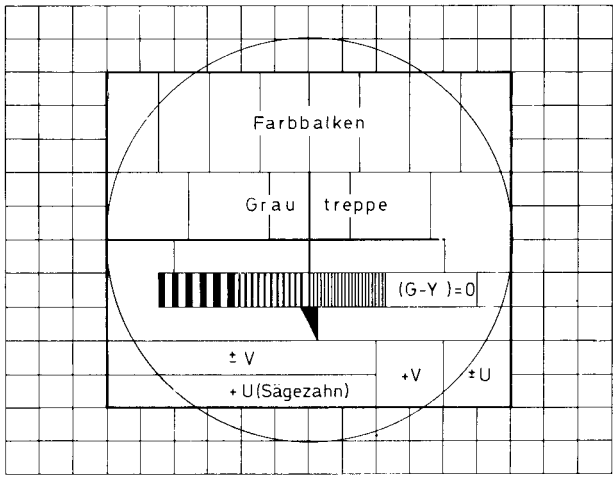
b) PAL Delay Demodulator
Adjust with R 484 to min. "palousie" in the + V-/±U-field.
Align with L 488 and L 490 alternately to min. "palousie" in the (G–Y)=0 field (the respective cores should be equally deep immerged into the two coils).

Regolazioni dopo la sostituzione del ci

V 500/TDA 3300 (luminanza/crominanza)

a) Oscillatore a 4,43 MHz
Collegare il pin 5 con il pin 39 del V 500.
Collegare tra pin 8 e pin 13 un condensatore da 0,1 µF. Il collegamento deve rusultare il più breve possibile.
Sintonizzare un'immagine campione. Attenuare il segnale d'antenna.
Con R 549 regolare affinchè le barre di colore risultino quasi ferme.
Togliere i collegamenti.

b) Tarare il demodulatore pal con
R 484 per il minimo effetto persiana.
Regolare indi co L 488 e L 490, alternativamente, per il minimo effetto persiana.
Inuclei devono risultare all'incirca inseriti alla stessa profondita.



c) Schwarzwerteinstellung
HF-ZF — Modul RK 8 mit U 72 (+ 12 V) verbinden.
Pin 30 des V 500 an Masse.
Mit Schirmgitter-Einsteller R 791 die Katode mit der höchsten Spannung auf U = 160 V ± 5 V einstellen.
Kurzschlüsse entfernen.

c) Black level Adjustment
Connect RF/IF module RK 8 with U 72 (+ 12 V).
Pin 30 of V 500 to ground.
By means of screen grid adjuster R 791 adjust cathode with highest voltage to U = 160 V ± 5 V.
Remove short circuits.

c) Regolazione del valore del nero
Connettere modulo RF/FI con U 72 (+ 12 V).
Spina 30 di V 500 a massa.
Con regolatore di griglie schermo R 791 aggiustare il catodo con la massima tensione a U = 160 V ± 5 V.
Rimuovere cortocircuito.

W 700/Hybram (Horizontaloszillator)

Einstellung: Horizontaloszillator

W 700/Pin 12 (Mp. 800) an Masse legen.
Mit R 697 Zeilen auf Schwebung einstellen.
Kurzschluß aufheben.

W 700/Hybram (Horizontal oscillator)

Adjustment: Horizontal oscillator

Short-circuit MP 800 to ground.
Adjust with R 697 to line beat.
Disconnect the short circuit.

W 700/Hybram (oscillatore orizzontale)

Taratura: oscillatore orizzontale

Collegare a massa il Mp 800.
Con R 697 regolare la frequenza orizzontale per il miglior sincronismo togliere il collegamento di massa.

W 745/Hybram (SSVD-Schaltung)

Einstellungen:

a) Bildlage vertikal mit R 729
b) Bildhöhe mit R 734
c) Bildbreite mit R 742
d) O/W-Amplitude. Mit R 737 rechte und linke Gitterlinie auf Parallellauf einstellen.
e) Thyristorstrom einstellen.
Oszillograf an R 765 (Mp 719).
Tastkopf 1:1, Y-Abl. 20 mV/cm, DC.
Externe Tryggerung, Tryggerleitung an R 724 (Mp 712)
X-Abl. 2 ms/cm
Mit R 747 Thyristorstrom einstellen.

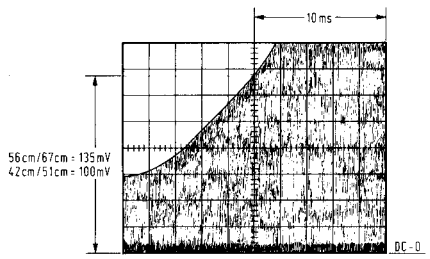
W 745/Hybram (SSVD circuit)

Adjustments:

a) Vertical position with R 729
b) Vertical amplitude with R 734
c) Vertical width with R 742
E/W-amplitude with R 737 to parallel scan of the right and the left vertical pattern lines
e) Thyristor (SCR) current with R 747.
Connect oscilloscope to R 765 (MP 719)
Test probe 1:1, Y-defl. 20 mv/cm, DC input.
External triggering to R 724 (MP 712).
X-defl. 2 ms/cm.

W 745/Hybram (circuito SSVD)

a) Centratura verticale con R 729
b) Ampiezza verticale con R 734
c) Ampiezza orizzontale con R 742
d) Ampiezza est/ovest con R 737 onde rendere parallele le linee destra e sinistra.
e) Regolare la corrente del tiristor con R 747.
oscillografo al R 765 (MP 719).
Testina 1:1 — ingresso y 20 mv/cm, cc.
Triggerazione esterna a R 724 (MP 712)
ingresso x—2 ms/cm.



V 310/TDA 1035 (Ton)

Einstellungen: keine

V 415/TDA 460 (Netzteil
Einstellung: U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V

Sender empfangen. Kontrast und Helligkeit auf Minimum einstellen. Röhrenvoltmeter an Meßpunkt 534 und Masse. Mit R 420 Spannung einstellen.

V 310/TDA 1035 (Sound)

Adjustment: No.

V 415/TDA 460 (Mains Unit)
U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V

Receive transmitter. Set contrast and brightness to minimum. VTVM to measuring point 534 and ground. With R 420 adjust voltage.

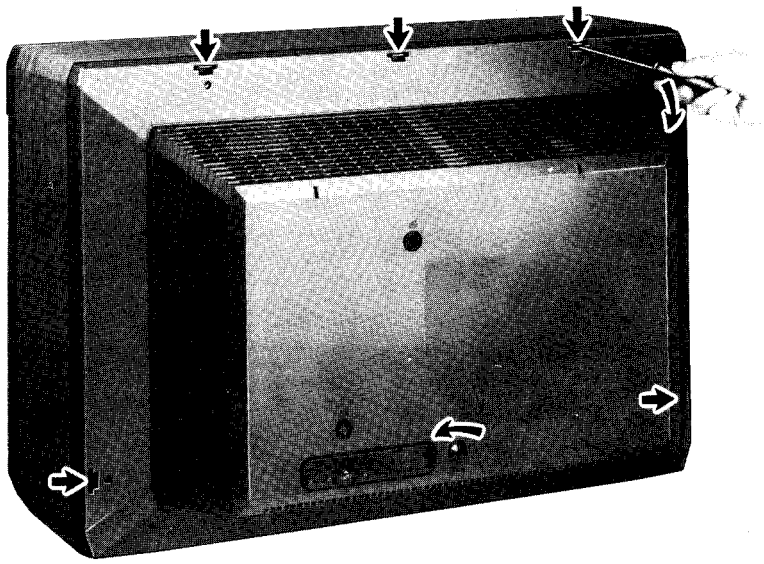
V 310/TDA 1035

Regolazione: nessuna

V 415/TDA 460 (Alimentatore)
U 29 = + 117 V
U 28 = + 124 V
U 34 = + 145 V

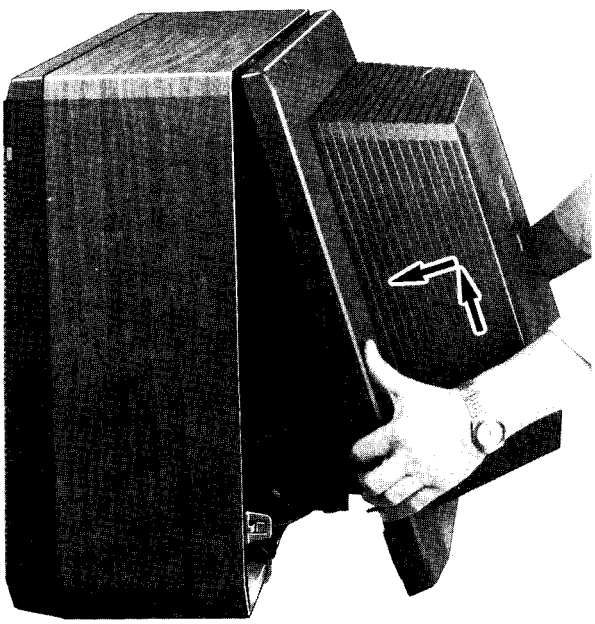
Ricevere una emittente. Contrasto e luminosità regolati per il minimo. Voltmetro elettronico fra massa e il punto di misura 534. Regolare la tensione con R 420.

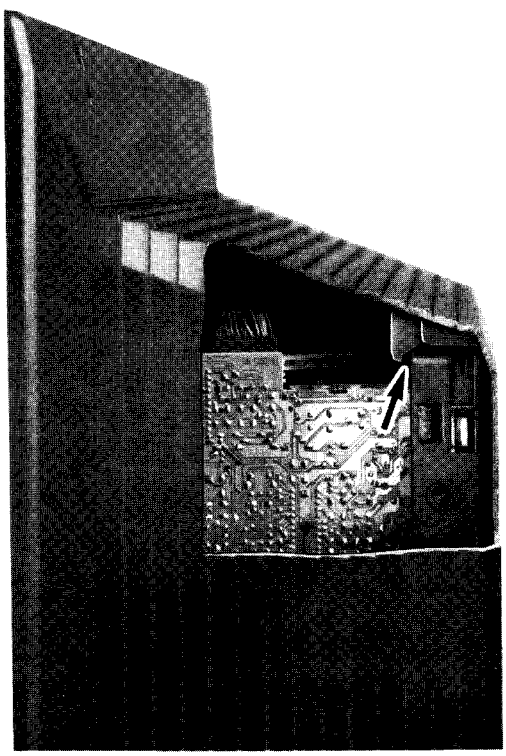
Abnehmen der Rückwand
Removal of rear panel
Smontare la parte posteriore



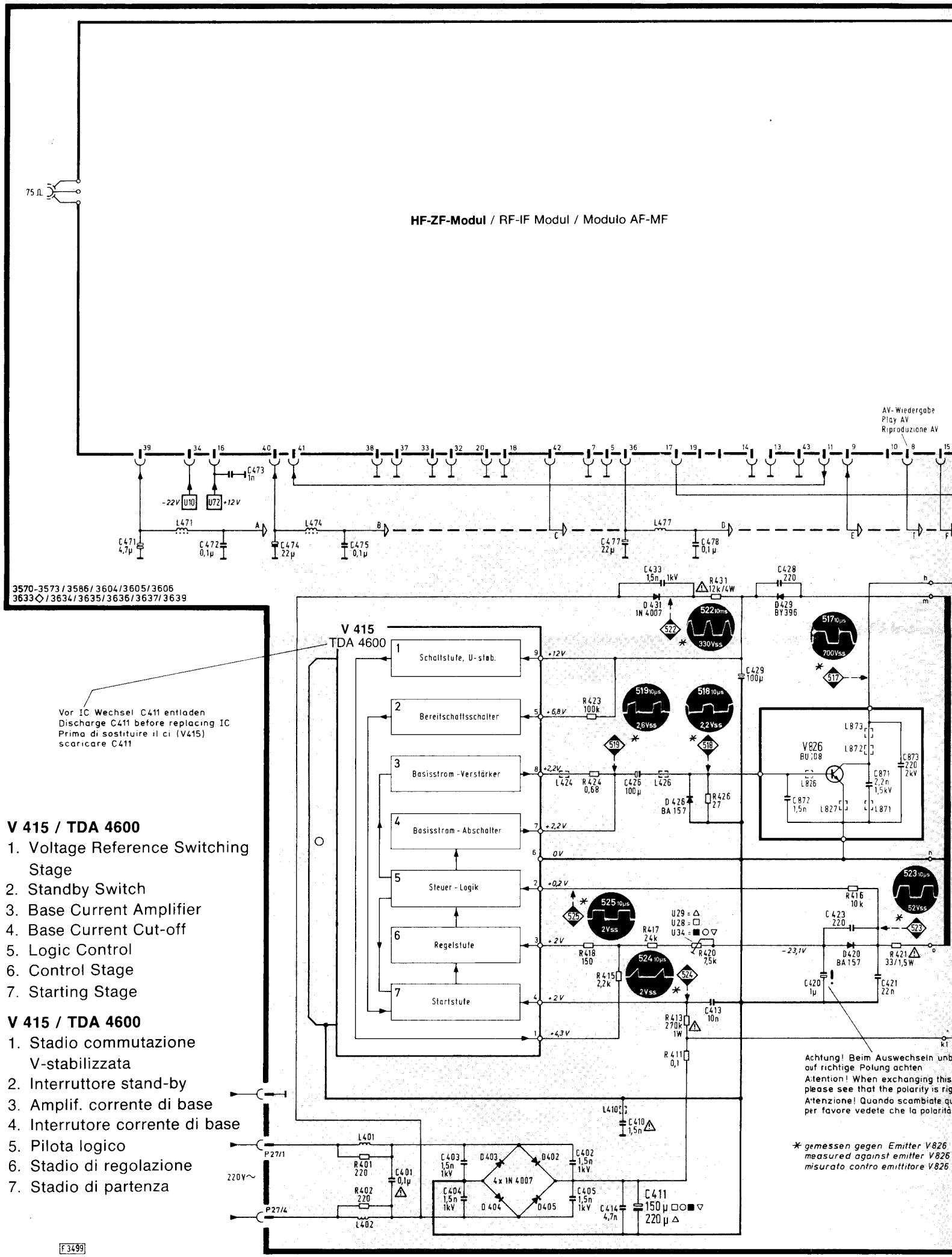
AUDIO VIDEO SERVIS
Miroslav [illegible]
51218 Jelenje, [illegible] 20
YUGOSLAVIA

Aufsetzen der Rückwand
Set up rear panel
Soprappore la parte posteriore





HF-ZF-Modul / RF-IF Modul / Modulo AF-MF



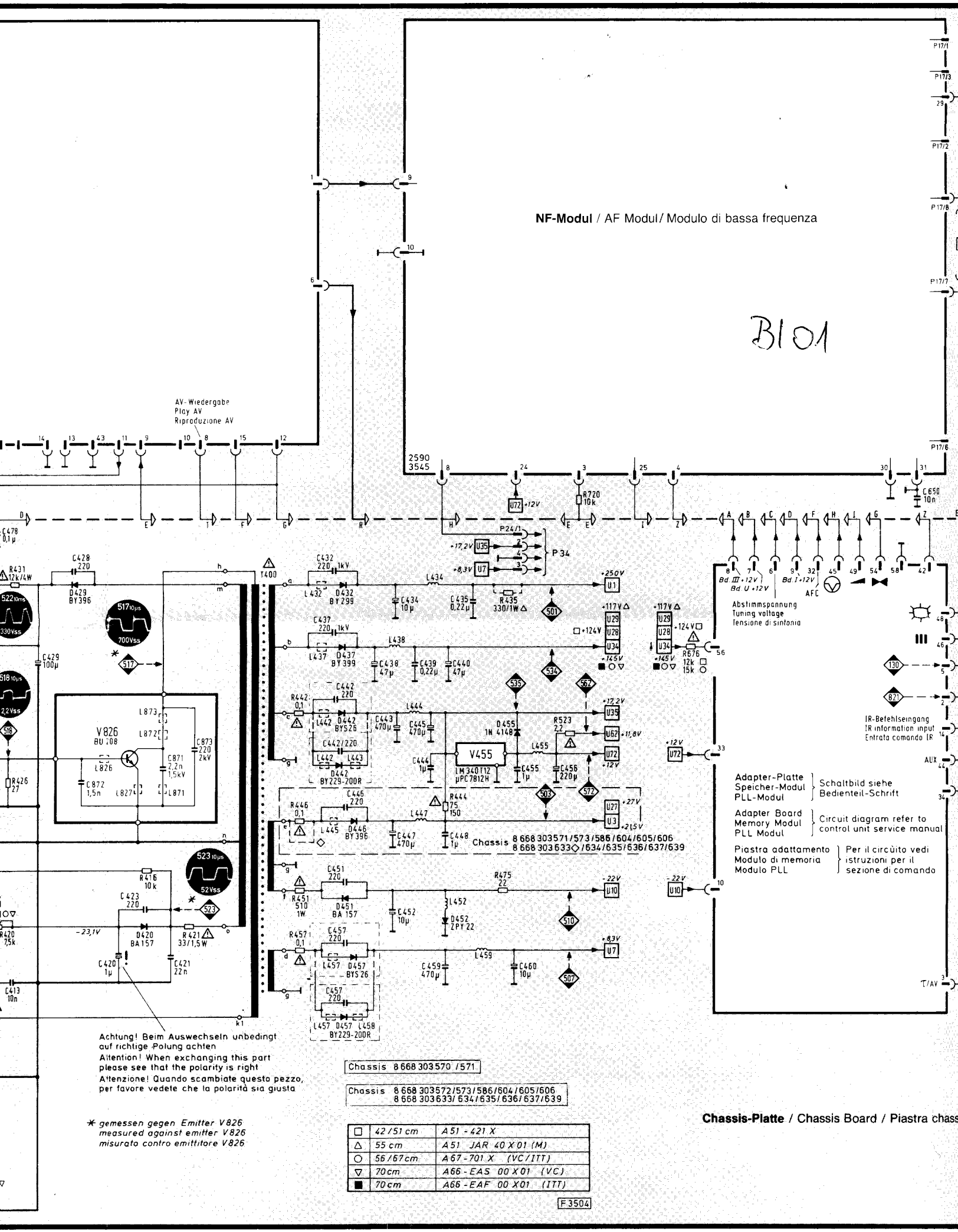
V 415 / TDA 4600

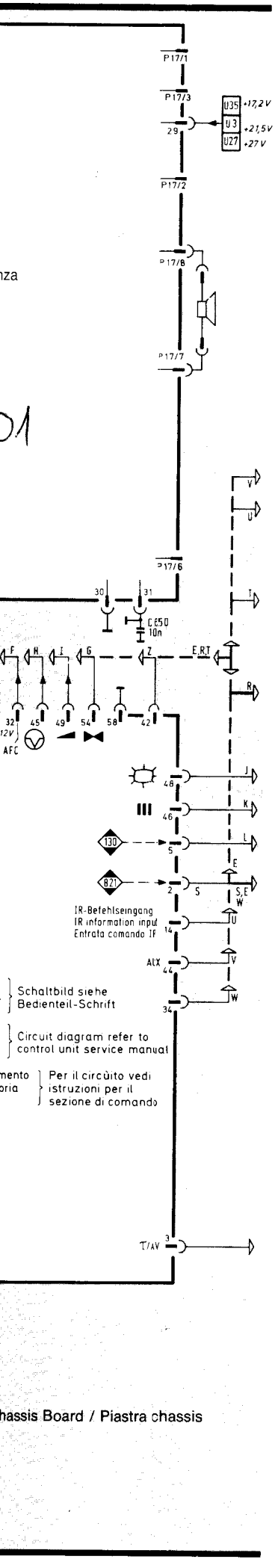
1. Voltage Reference Switching Stage
2. Standby Switch
3. Base Current Amplifier
4. Base Current Cut-off
5. Logic Control
6. Control Stage
7. Starting Stage

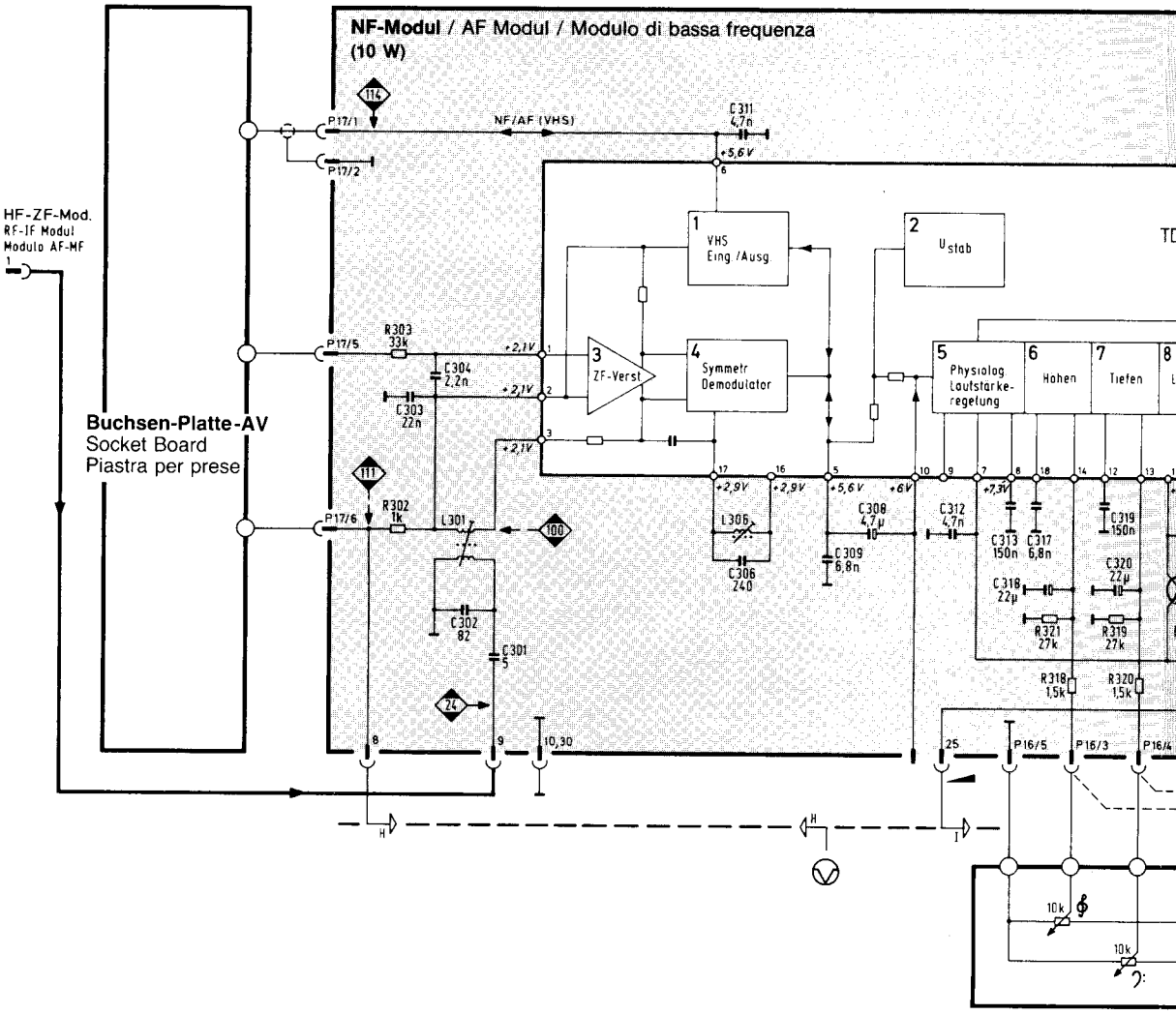
V 415 / TDA 4600

1. Stadio commutazione V-stabilizzata
2. Interruttore stand-by
3. Amplif. corrente di base
4. Interrutore corrente di base
5. Pilota logico
6. Stadio di regolazione
7. Stadio di partenza

F 3499

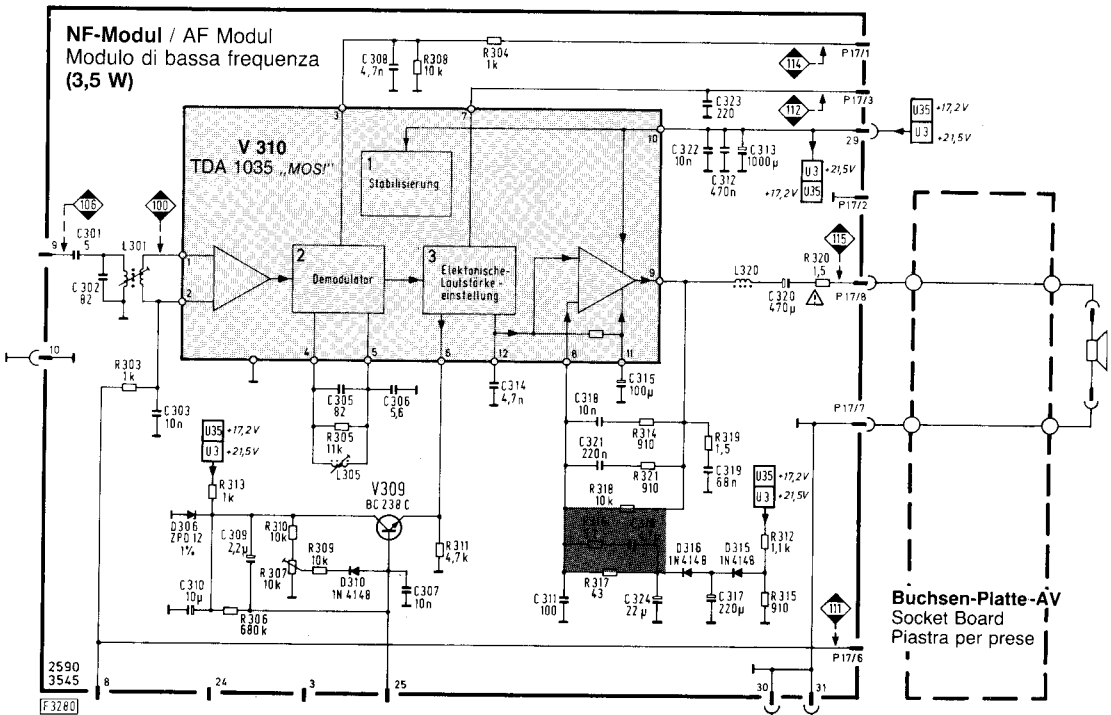

NF-Modul / AF Modul / Modulo di bassa frequenza
B101
AV-Wiedergabe
Play AV
Riproduzione AV
2590
3545
P17/1
P17/3
P17/2
P17/8
P17/7
P17/6
P34
P24/1
T400
V826
BU 108
V455
LM 340T12
µPC7812H
Bd III +12V
Bd U +12V
Bd I +12V
AFC
Abstimmspannung
Tuning voltage
Tensione di sintonia
IR-Befehlseingang
IR information input
Entrata comando IR
AUX
T/AV
Adapter-Platte
Speicher-Modul
PLL-Modul
Schaltbild siehe Bedienteil-Schrift
Adapter Board
Memory Modul
PLL Modul
Circuit diagram refer to control unit service manual
Piastra adattamento
Modulo di memoria
Modulo PLL
Per il circuito vedi istruzioni per il sezione di comando
Chassis 8 668 303571/573/586/604/605/606
8 668 303633◇/634/635/636/637/639
Achtung! Beim Auswechseln unbedingt auf richtige Polung achten
Attention! When exchanging this part please see that the polarity is right
Attenzione! Quando scambiate questo pezzo, per favore vedete che la polarità sia giusta
Chassis 8 668 303570/571
Chassis 8 668 303572/573/586/604/605/606
8 668 303633/634/635/636/637/639
* gemessen gegen Emitter V826
measured against emitter V826
misurato contro emittitore V826
Chassis-Platte / Chassis Board / Piastra chass
□ 42/51 cm A51-421X
△ 55 cm A51 JAR 40X01 (M)
○ 56/67cm A67-701X (VC/ITT)
▽ 70cm A66-EAS 00X01 (VC)
■ 70cm A66-EAF 00X01 (ITT)
F3504

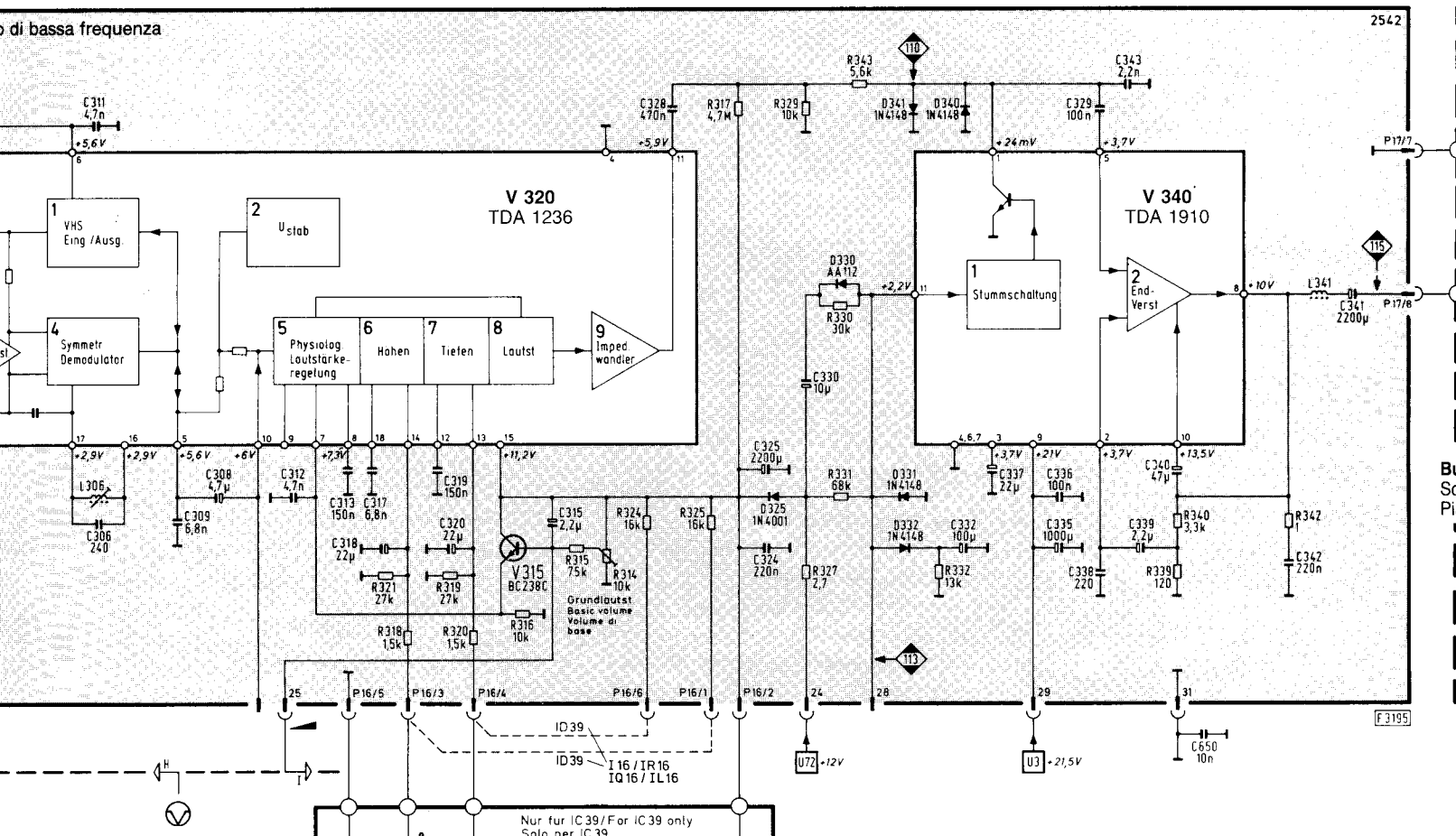


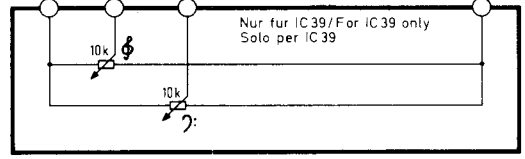


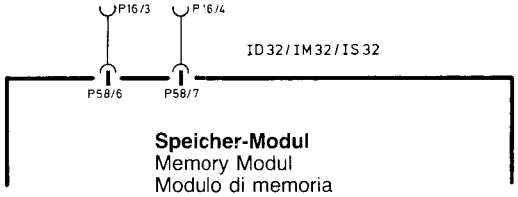
V 310 / TDA 1035
1. Stabilized Voltage
2. Demodulator
3. Electr. Volume Control

V 310 / TDA 1035
1. V. stabilizzata
2. Demodulatore
3. Regolazione del volume elettronico







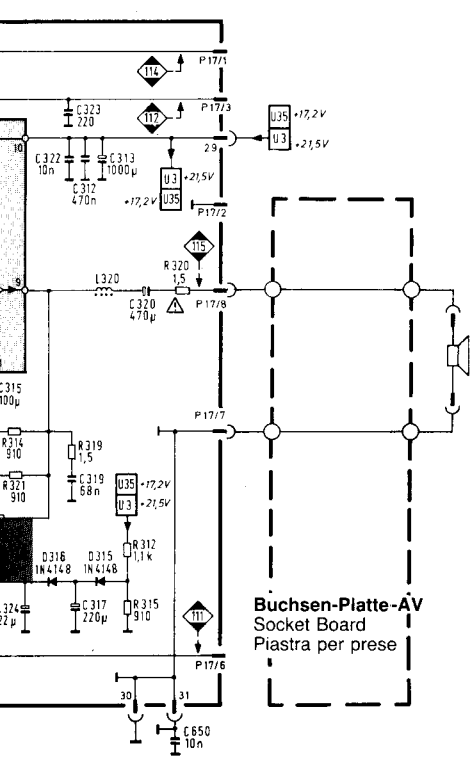


Speicher-Modul
Memory Modul
Modulo di memoria

V 320 / TDA 1236
1. VHS-input/output
2. Stabilized Voltage
3. IF-amplifier
4. Demodulator
5. Loudn. control
6. Treble
7. Bass
8. Volume
9. Impedance Transformer

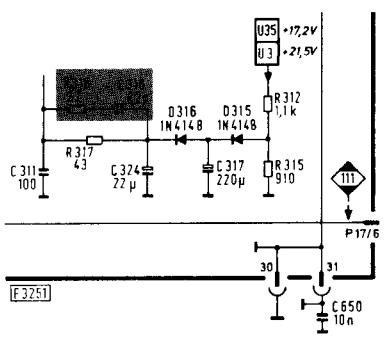
V 340 / TDA 1910
1. On / Off Muting
2. Output Stage

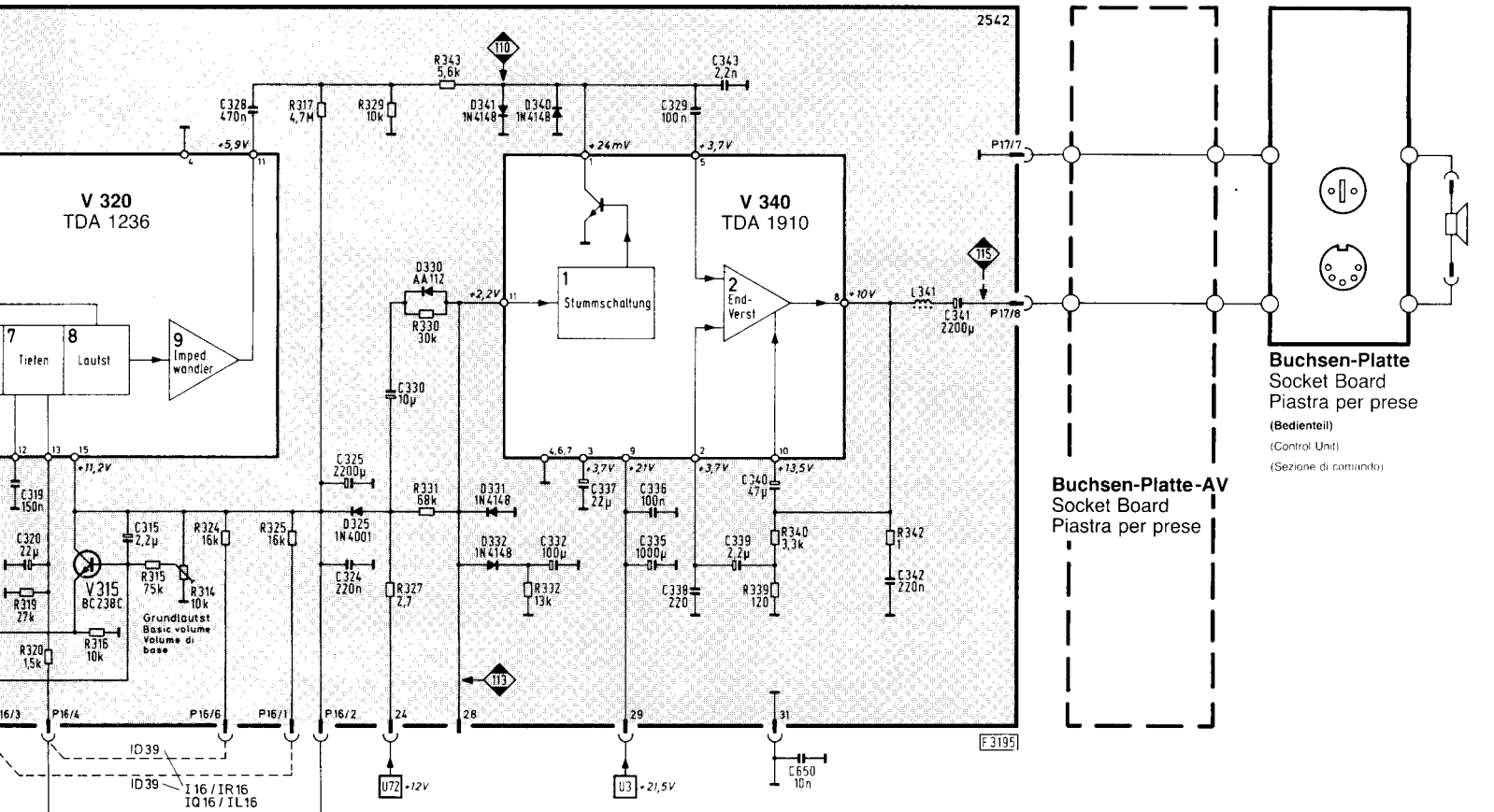
0 / TDA 1035
stabilizzata
emodulatore
egolazione del
olume elettronico

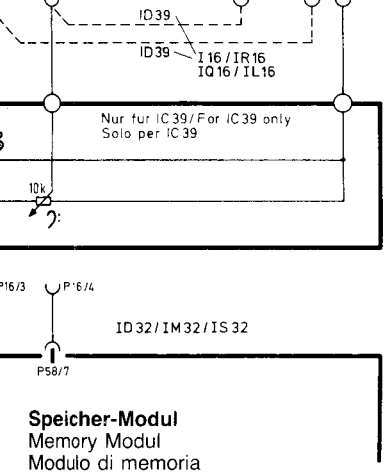


Buchsen-Platte-AV
Socket Board
Piastra per prese

English version







Speicher-Modul
Memory Modul
Modulo di memoria

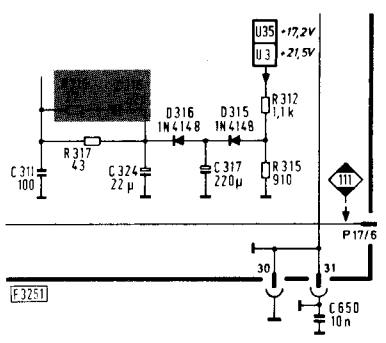
V 320 / TDA 1236
1. VHS-input/output
2. Stabilized Voltage
3. IF-amplifier
4. Demodulator
5. Loudn. control
6. Treble
7. Bass
8. Volume
9. Impedance Transformer

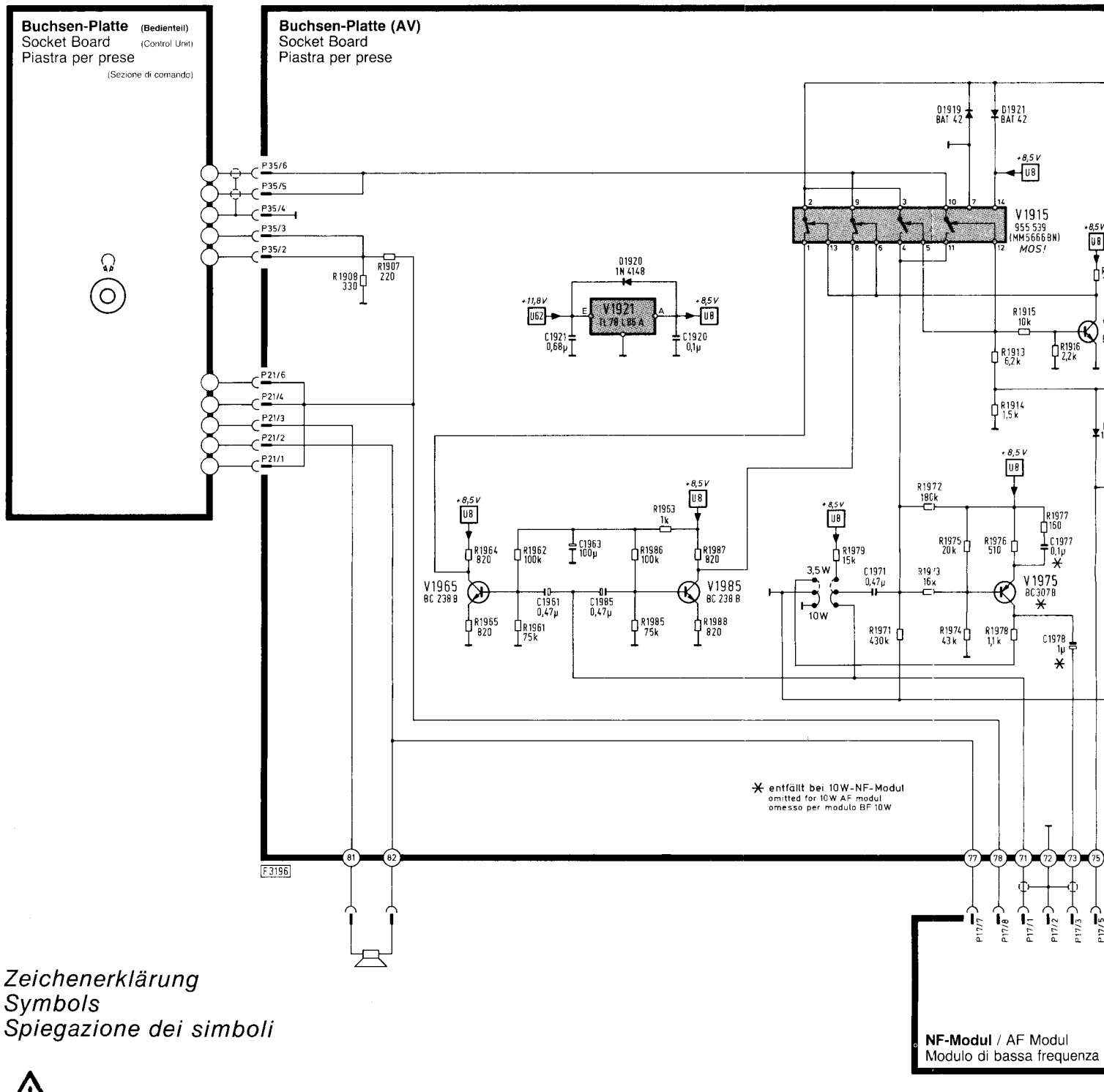
V 320 / TDA 1236
1. VHS-ingr. uscita
2. V-stabil.
3. Amplificatore MF
4. Demodulatore simm.
5. Regol. volume-fisiol.
6. Acuti
7. Bassi
8. Volume
9. Adatt. impedenza

V 340 / TDA 1910
1. On / Off Muting
2. Output Stage

V 340 / TDA 1910
1. Interruttore Muto
2. Finali

English version





Zeichenerklärung
Symbols
Spiegazione dei simboli

Sicherheits-Bauelement
(muß durch Originalteil ersetzt werden)

Security component
(must be replaced by original part)

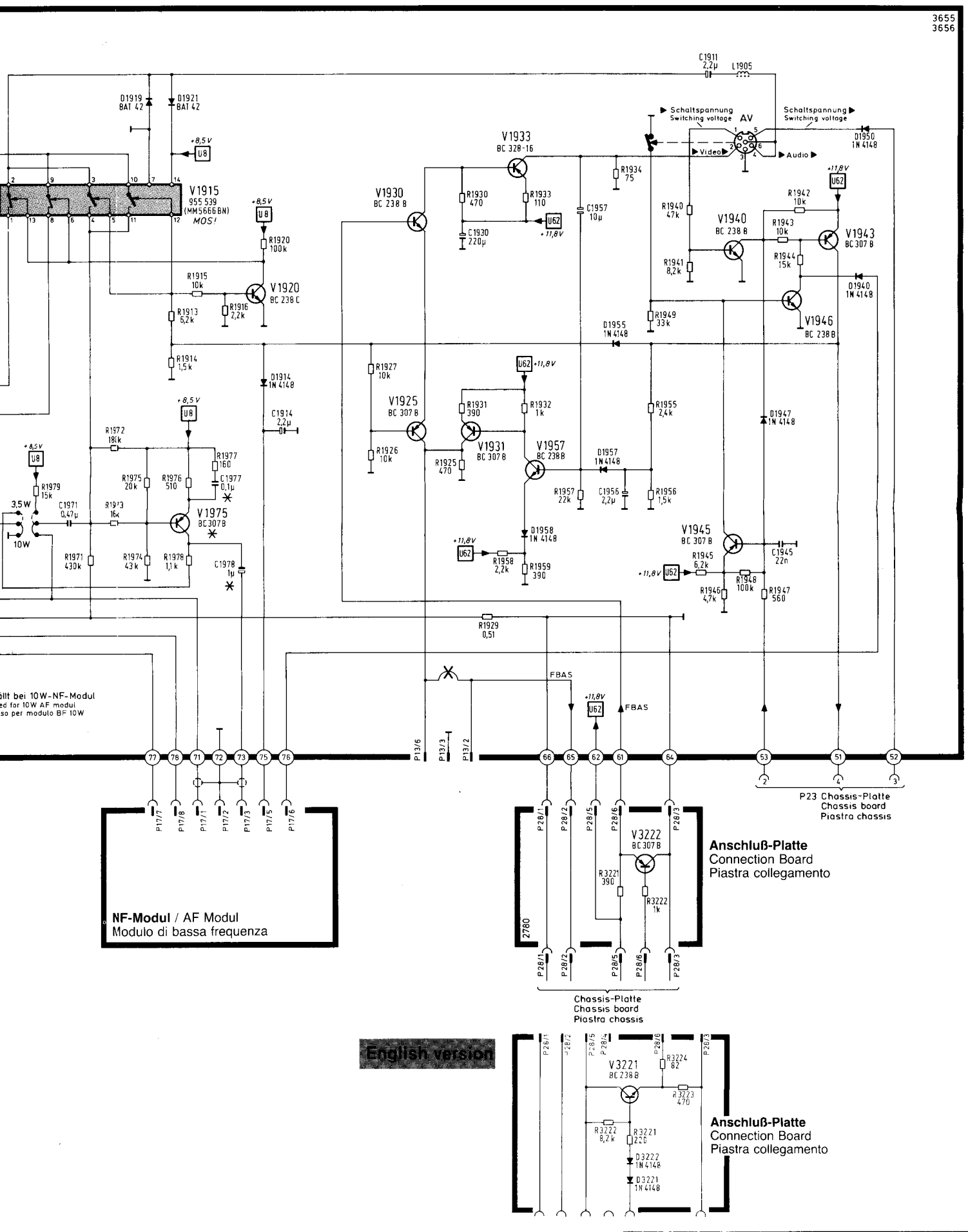
Componenti di sicurezza
(devono essere sostituiti tipi originali)

MOS!

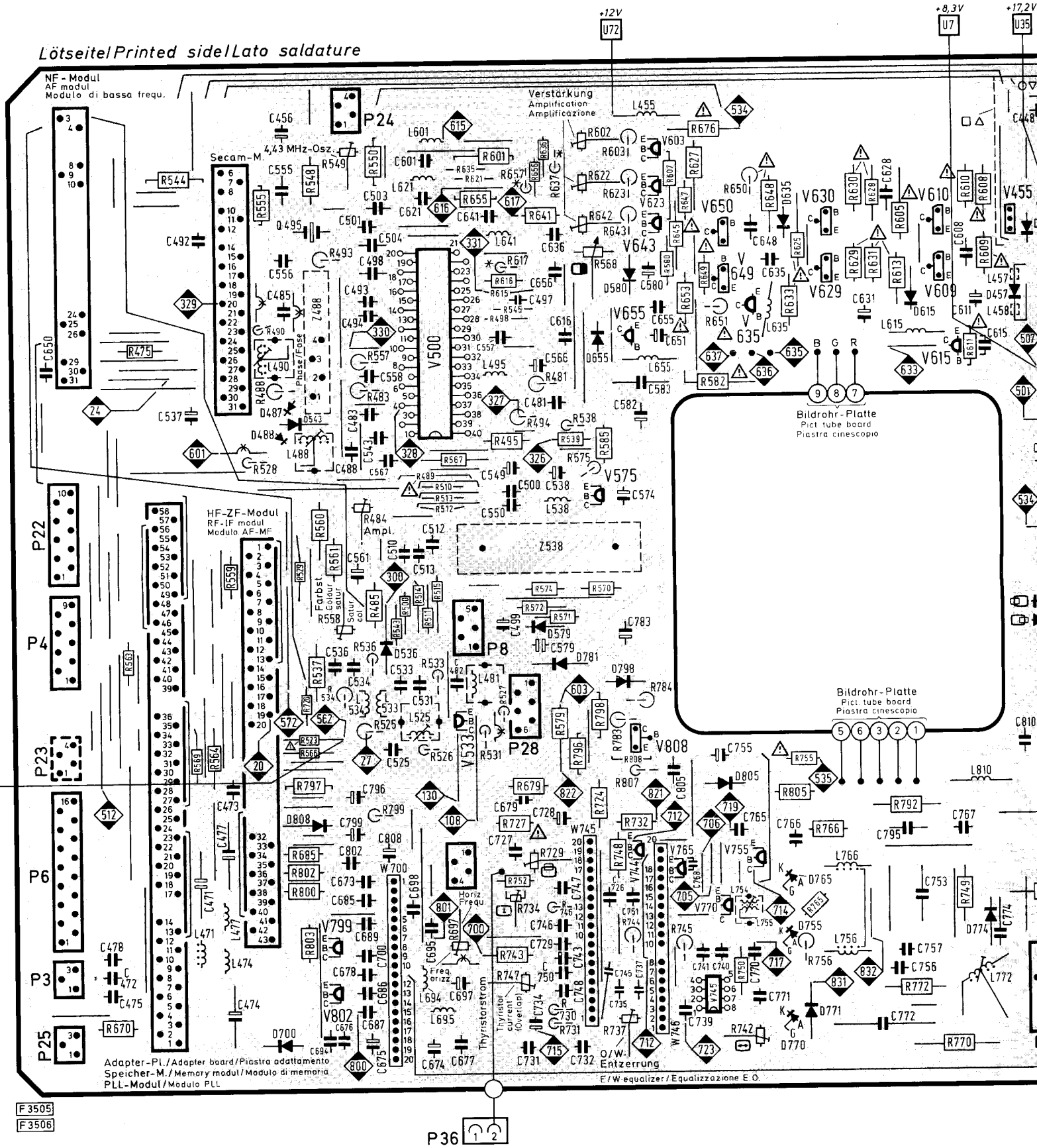
Hochempfindliches Bauteil.
Bitte einschlägige Behandlungsvorschriften beachten.

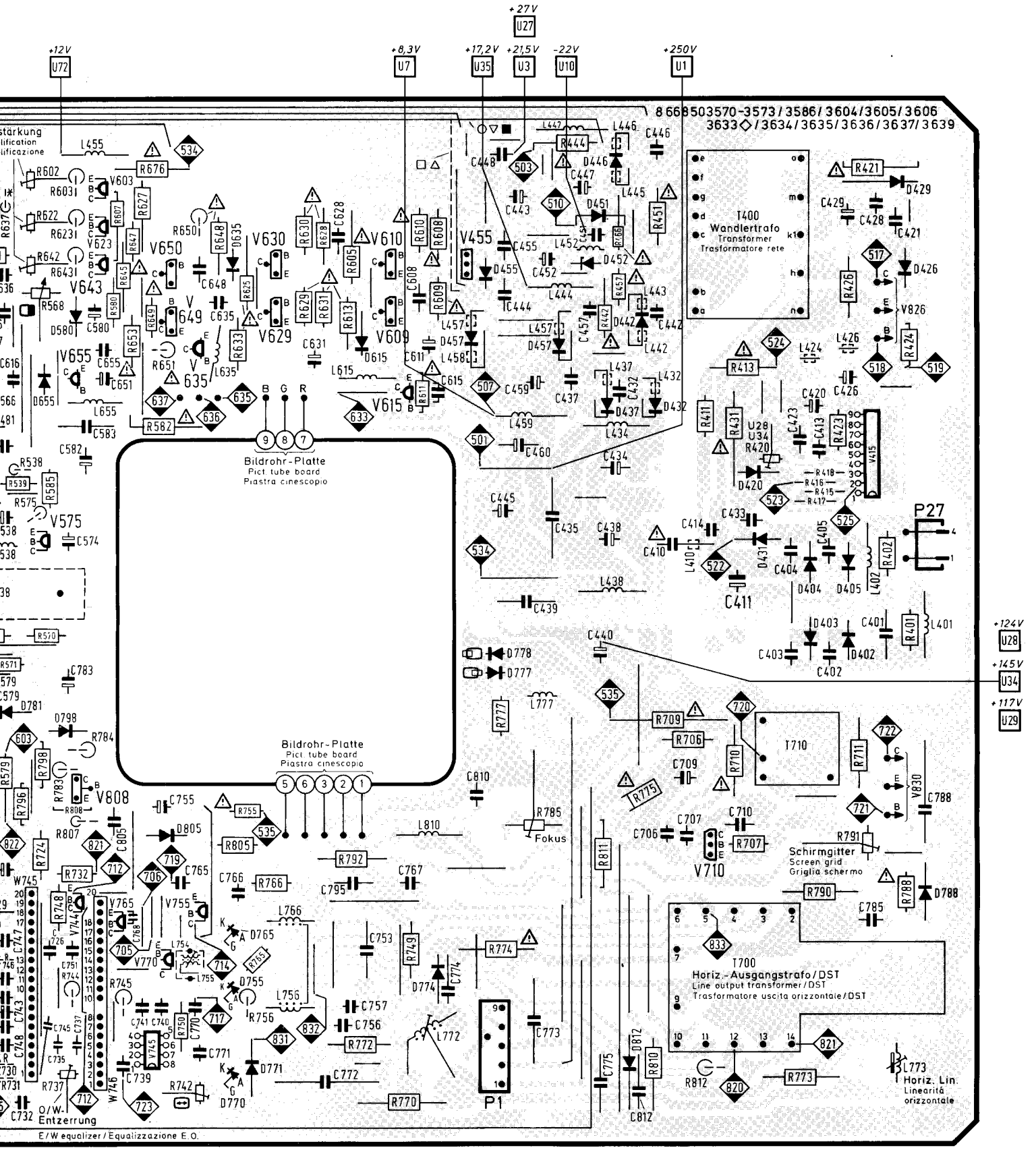
Highly sensitive component!
Please observe appropriate handling instructions!

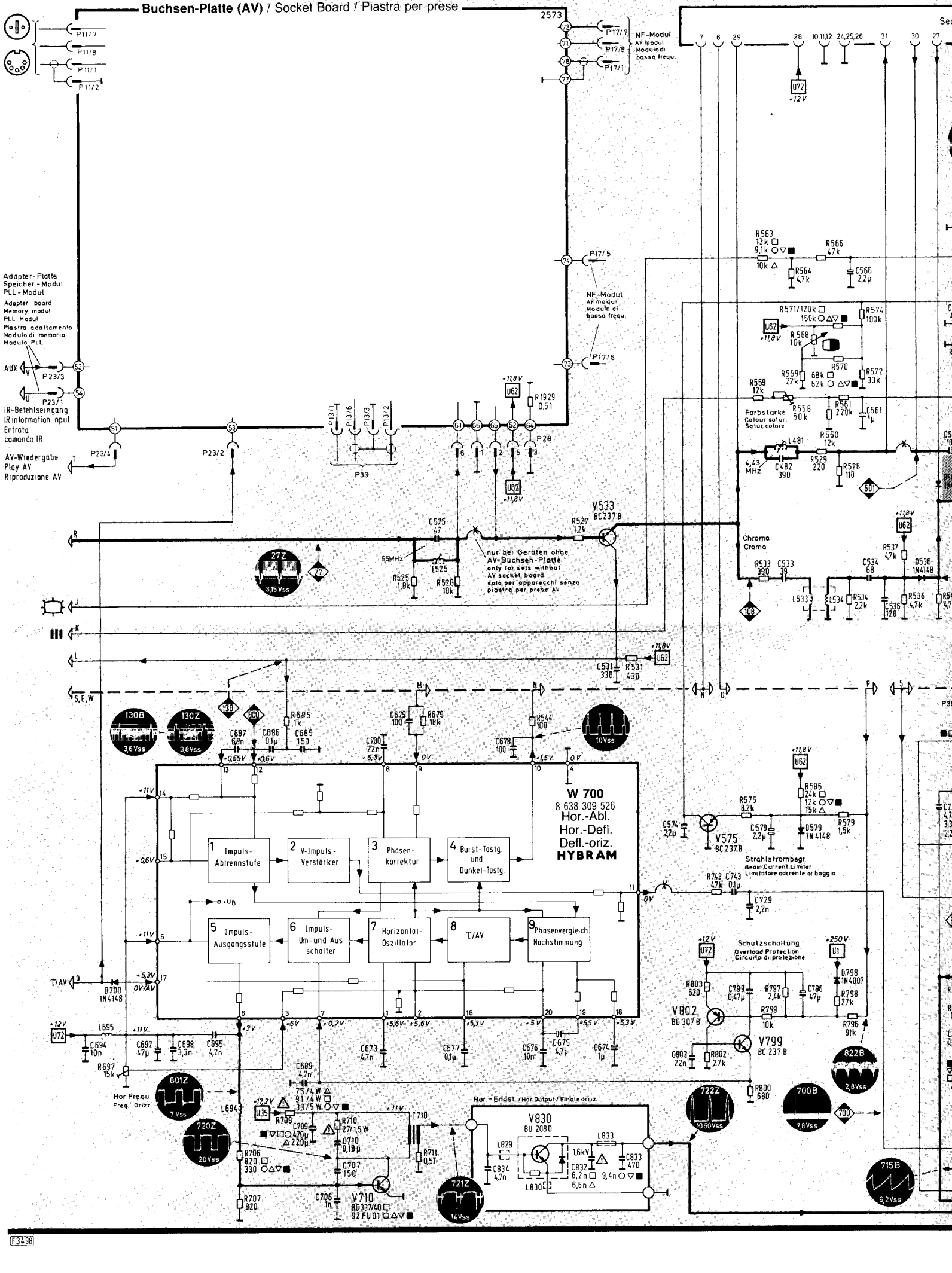
Componente MOS di estrema sensibilita!
Si prega di prestare attenzione alle relative prescrizioni sul trattamento.

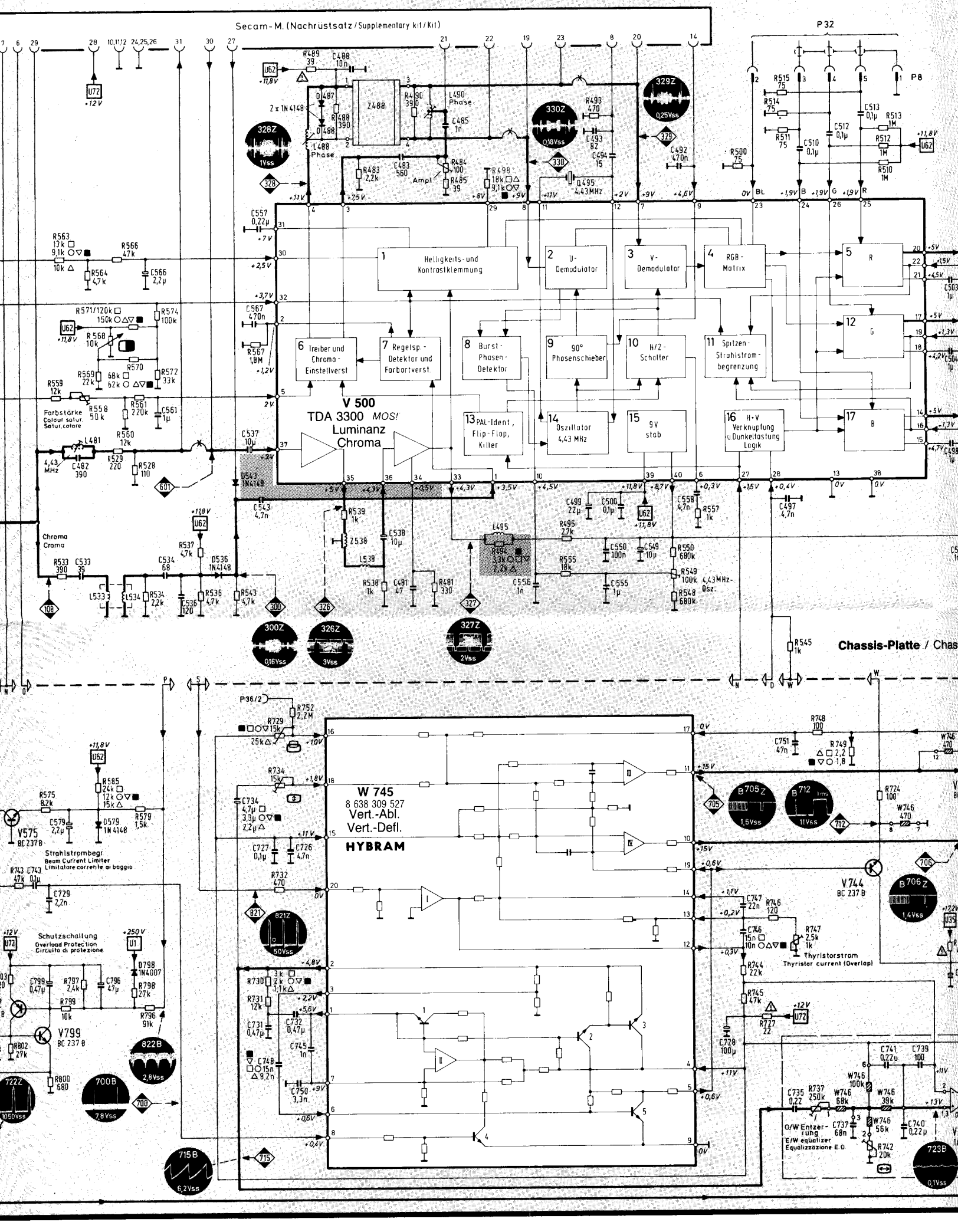

C1911 2,2µ
L1905
D1919 BAT 42
D1921 BAT 42
+8,5V
U8
V1915 955 539 (MM5666BN) MOS!
R1920 100k
V1920 BC 238 C
R1915 10k
R1913 6,2k
R1916 2,2k
R1914 1,5k
D1914 1N 4148
C1914 2,2µ
R1972 18k
R1977 160
R1975 20k
R1976 510
C1977 0,1µ
R1979 15k
3,5W
10W
C1971 0,47µ
R1973 16k
V1975 BC307B
R1971 430k
R1974 43k
R1978 1,1k
C1978 1µ
R1929 0,51
V1933 BC 328-16
R1934 75
V1930 BC 238 B
R1930 470
R1933 110
C1930 220µ
+11,8V
U62
C1957 10µ
R1940 47k
V1940 BC 238 B
R1941 8,2k
R1942 10k
R1943 10k
V1943 BC 307 B
R1944 15k
D1940 1N 4148
V1946 BC 238 B
R1949 33k
D1955 1N 4148
R1927 10k
V1925 BC 307 B
R1926 10k
R1931 390
R1932 1k
V1931 BC 307 B
R1925 470
V1957 BC 238 B
R1955 2,4k
D1947 1N 4148
D1957 1N 4148
R1957 22k
C1956 2,2µ
R1956 1,5k
D1958 1N 4148
R1958 2,2k
R1959 390
V1945 BC 307 B
C1945 22n
R1945 6,2k
R1948 100k
R1946 4,7k
R1947 560
Schaltspannung Switching voltage AV
Schaltspannung Switching voltage
Video
Audio
D1950 1N 4148
FBAS
P13/6
P13/3
P13/2
77 78 71 72 73 75 76
66 65 62 61 64 53 51 52
P17/7 P17/8 P17/1 P17/2 P17/3 P17/5 P17/6
P28/1 P28/2 P28/5 P28/6 P28/3
V3222 BC 307 B
R3221 390
R3222 1k
2780
P23 Chassis-Platte
Chassis board
Piastra chassis
NF-Modul / AF Modul
Modulo di bassa frequenza
Anschluß-Platte
Connection Board
Piastra collegamento
Chassis-Platte
Chassis board
Piastra chassis
English version
V3221 BC 238 B
R3224 82
R3223 470
R3222 8,2k
R3221 220
D3222 1N 4148
D3221 1N 4148
Anschluß-Platte
Connection Board
Piastra collegamento

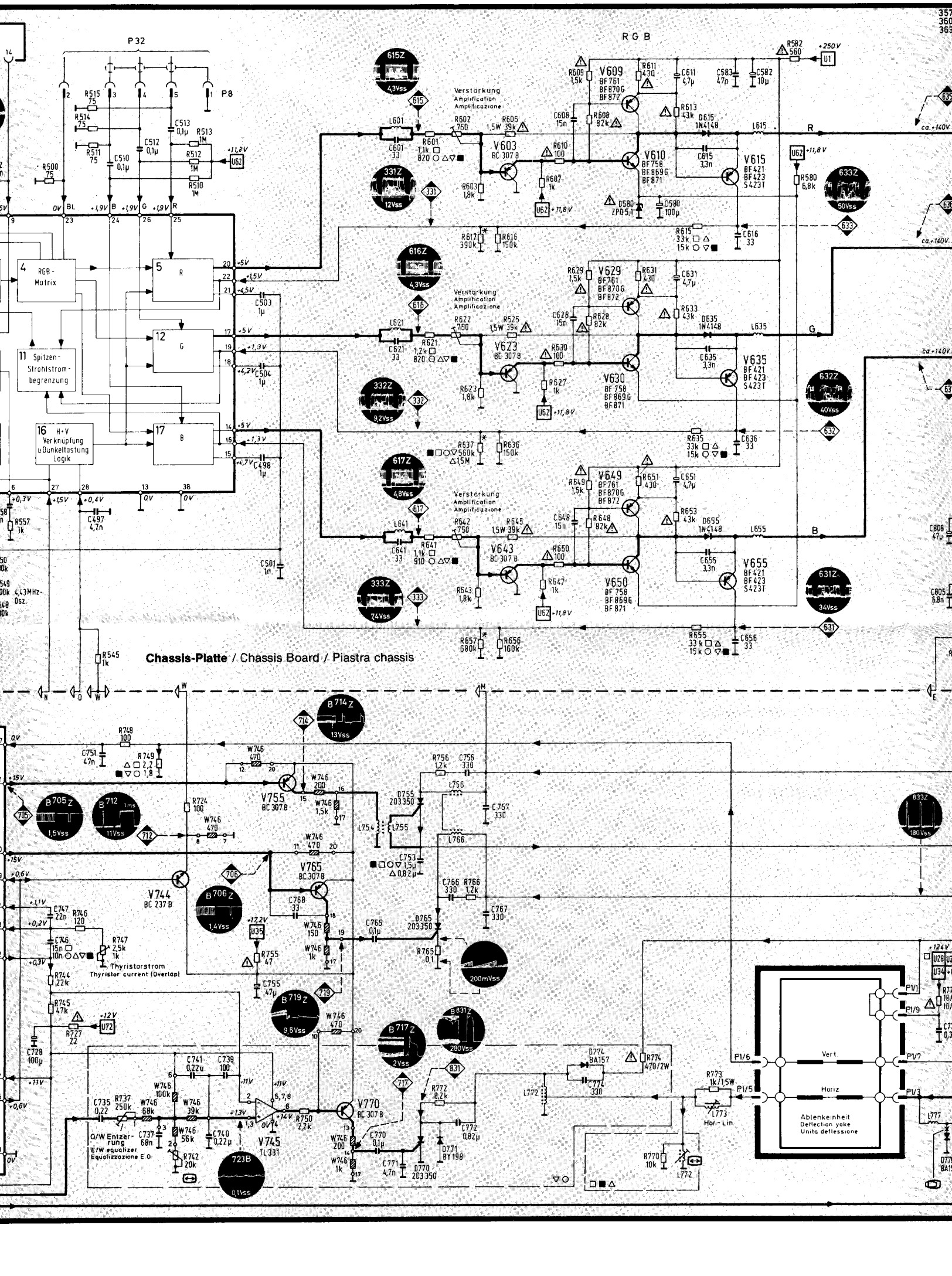
Chassis-Platte
Chassis Board
Piastra chassis

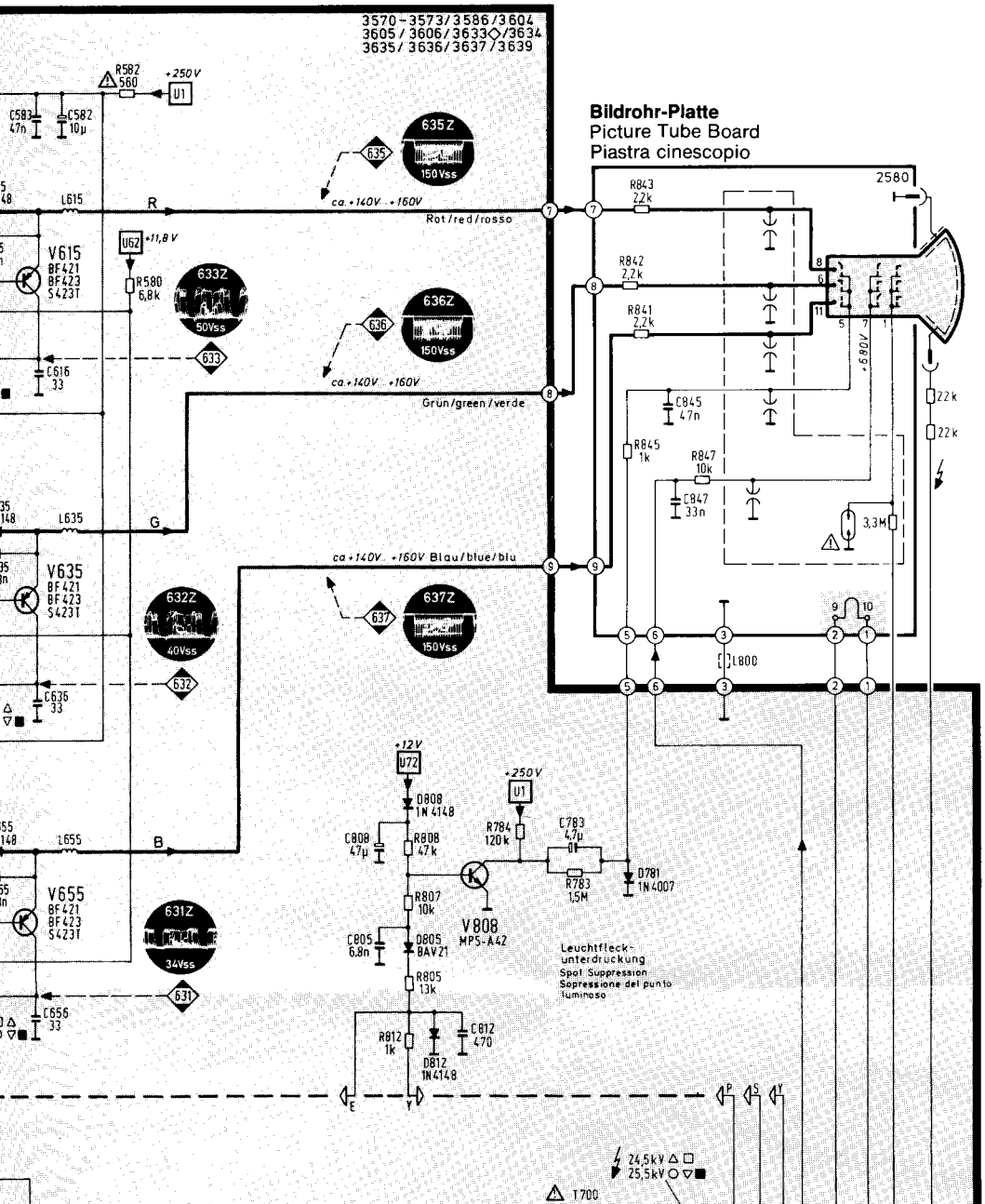



8668503570-3573/3586/3604/3605/3606
3633◇/3634/3635/3636/3637/3639
+27V
U27
+12V
U72
+8,3V
U7
+17,2V
+21,5V
U35
U3
-22V
U10
+250V
U1
T400
Wandlertrafo
Transformer
Trasformatore rete
Bildrohr-Platte
Pict tube board
Piastra cinescopio
Bildrohr-Platte
Pict tube board
Piastra cinescopio
T710
T700
Horiz.-Ausgangstrafo/DST
Line output transformer/DST
Trasformatore uscita orizzontale/DST
Fokus
Schirmgitter
Screen grid
Griglia schermo
O/W-
Entzerrung
E/W equalizer/Equalizzazione E.O.
Horiz. Lin.
Linearità
orizzontale
+124V
U28
+145V
U34
+117V
U29
P27
P1


Buchsen-Platte (AV) / Socket Board / Piastra per prese
NF-Modul
AF modul
Modulo di bassa frequ.
Adapter-Platte
Speicher-Modul
PLL-Modul
Adapter board
Memory modul
PLL Modul
Piastra adattamento
Modulo di memoria
Modulo PLL
AUX
IR-Befehlseingang
IR information input
Entrata comando IR
AV-Wiedergabe
Play AV
Riproduzione AV
P33
nur bei Geräten ohne AV-Buchsen-Platte
only for sets without AV socket board
solo per apparecchi senza piastra per prese AV
W 700
8 638 309 526
Hor.-Abl.
Hor.-Defl.
Defl.-oriz.
HYBRAM
1 Impuls-Abtrennstufe
2 V-Impuls-Verstärker
3 Phasen-korrektur
4 Burst-Tastg. und Dunkel-Tastg.
5 Impuls-Ausgangsstufe
6 Impuls-Um- und Aus-schalter
7 Horizontal-Oszillator
8 T/AV
9 Phasenvergleich. Nachstimmung
Chroma
Croma
Farbstarke
Colour satur.
Satur. colore
Strahlstrombegr
Beam Current Limiter
Limitatore corrente di baggio
Schutzschaltung
Overload Protection
Circuito di protezione
Hor. - Endst. / Hor Output / Finale orriz
Hor Frequ
Freq. Orizz.
V533 BC 237 B
V575 BC 237 B
V802 BC 307 B
V799 BC 237 B
V830 BU 208 D
V710 BC 337/40 92 PU 01
D700 1N4148
D798 1N4007
D579 1N4148
D536 1N4148
L481
L525
L695
L694
L829
L830
L833
T710
U35
U62
U72
U1
601
108
130
800
27Z
130B
130Z
801Z
720Z
722Z
700B
822B
715B
721Z


Secam-M. (Nachrüstsatz / Supplementary kit / Kit)
V 500
TDA 3300 MOS!
Luminanz
Chroma
1 Helligkeits- und Kontrastklemmung
2 U-Demodulator
3 V-Demodulator
4 RGB-Matrix
5 R
6 Treiber und Chroma-Einstellverst
7 Regelsp.-Detektor und Farbartverst.
8 Burst-Phasen-Detektor
9 90° Phasenschieber
10 H/2-Schalter
11 Spitzen-Strahlstrom-begrenzung
12 G
13 PAL-Ident., Flip-Flop, Killer
14 Oszillator 4,43 MHz
15 9 V stab
16 H-V Verknüpfung u. Dunkeltastung Logik
17 B
W 745
8 638 309 527
Vert.-Abl.
Vert.-Defl.
HYBRAM
Chassis-Platte / Chas
Chroma
Croma
Farbstärke
Colour satur.
Satur. colore
Strahlstrombegr.
Beam Current Limiter
Limitatore corrente di baggio
Schutzschaltung
Overload Protection
Circuito di protezione
Thyristorstrom
Thyristor current (Overlap)
O/W Entzerrung
E/W equalizer
Equalizzazione E.O.
4,43 MHz-Osz.


P32
P8
RGB
4 RGB-Matrix
5 R
12 G
17 B
11 Spitzen-Strahlstrom-begrenzung
16 H-V Verknupfung u Dunkeltastung Logik
Verstärkung
Amplification
Amplificazione
V609 BF 761 BF 870G BF 872
V610 BF 758 BF 869G BF 871
V615 BF 421 BF 423 S 423T
V603 BC 307 B
V629 BF 761 BF 870G BF 872
V630 BF 758 BF 869G BF 871
V635 BF 421 BF 423 S 423T
V623 BC 307 B
V649 BF 761 BF 870G BF 872
V650 BF 758 BF 869G BF 871
V655 BF 421 BF 423 S 423T
V643 BC 307 B
615Z 4,3Vss
616Z 4,3Vss
617Z 4,8Vss
331Z 12Vss
332Z 9,2Vss
333Z 7,4Vss
633Z 50Vss
632Z 40Vss
631Z 34Vss
Chassis-Platte / Chassis Board / Piastra chassis
B 714 Z 13Vss
B 705 Z 1,5Vss
B 712 11Vss
B 706 Z 1,4Vss
B 719 Z 9,5Vss
B 717 Z 2Vss
B 831 Z 280Vss
B 833 Z 180Vss
V744 BC 237 B
V755 BC 307 B
V765 BC 307 B
V770 BC 307 B
V745 TL 331
723B 0,1Vss
200mVss
Thyristorstrom
Thyristor current (Overlap)
O/W Entzerrung
E/W equalizer
Equalizzazione E.O.
Vert
Horiz
Hor-Lin
Ablenkeinheit
Deflection yoke
Unita deflessione
ca. +140V
ca. +250V
+11,8V
+12V
+12,2V
+13V
+124V



V 500 / TDA 3300

1. Brightness/Contrast Black Level Clamp
2. U-Demodulator
3. V-Demodulator
4. Matrix
5. R
6. Driver and Chroma Control Stage
7. ACC and Chroma Amp.
8. Burst Phase Detector
9. 90° Phase Shifter
10. H/2 Switch
11. Beam Current Limiter
12. G
13. PAL Ident., Flip Flop, Killer
14. 4,43 MHz Oscillator
15. 9 V stab.
16. H+V Gating and Blanking Logic
17. B

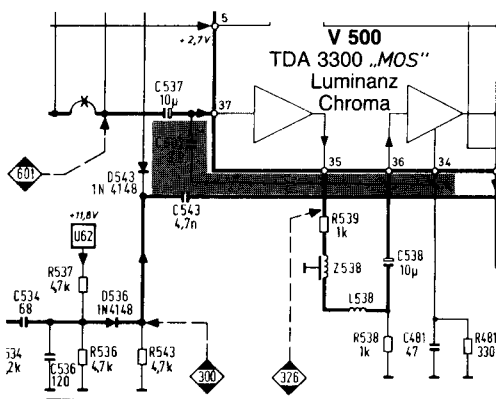
W 700 (Hybram)

1. Sync. Seperator
2. V-Pulse Amplifier
3. Phase Correction
4. Burst Detector and Blanking Stage
5. Pulse Output Stage
6. Trigger Pulse Stage
7. Horizontal Oscillator
8. $\Delta\tau$ Switchover AV
9. Phase Comparator

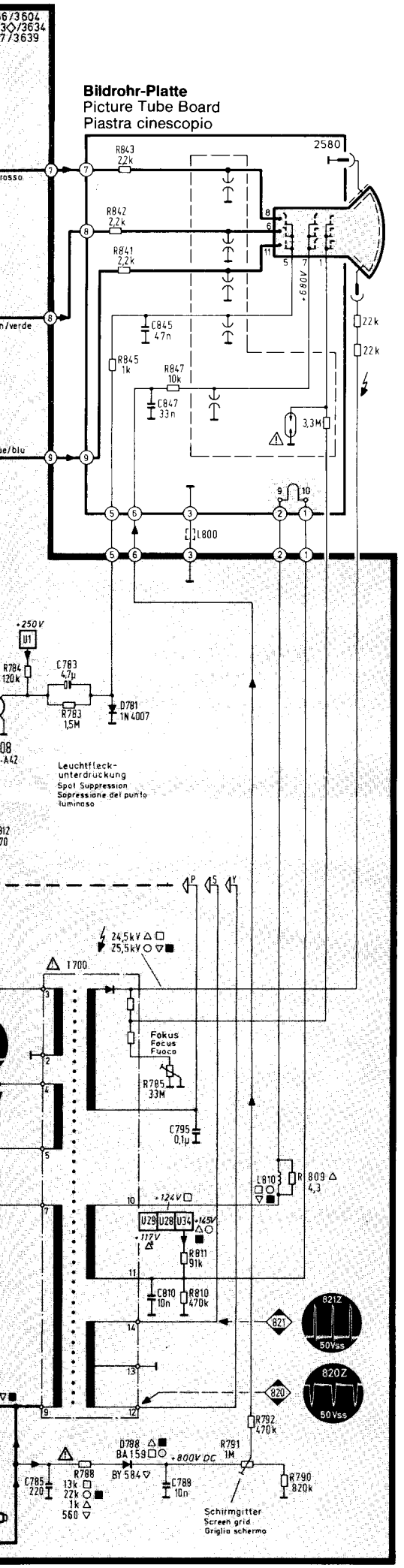
□	42/51 cm	A51 - 421 X
△	55 cm	A51 JAR 40 X 01 (M)
○	56/67 cm	A67-701 X (VC/ITT)
▽	70 cm	A66-EAS 00 X01 (VC)
■	70 cm	A66-EAF 00 X01 (ITT)

F 3504

English version



F 3249



V 500 / TDA 3300

1. Brightness/Contrast Black Level Clamp
2. U-Demodulator
3. V-Demodulator
4. Matrix
5. R
6. Driver and Chroma Control Stage
7. ACC and Chroma Amp.
8. Burst Phase Detector
9. 90° Phase Shifter
10. H/2 Switch
11. Beam Current Limiter
12. G
13. PAL Ident., Flip Flop, Killer
14. 4,43 MHz Oscillator
15. 9 V stab.
16. H+V Gating and Blanking Logic
17. B

V 500 / TDA 3300

1. Controllo livello luminosità e contrasto
2. Demodulatore (B–Y)
3. Demodulatore (R–Y)
4. Matrice RGB
5. R
6. Amplificatore Croma regolabile
7. Controllo automatico e amplificatore Croma
8. Discriminatore fase Burst
9. Sfasatore a 90°
10. Commutatore frequenza riga/2
11. Limitatore corrente di raggio
12. V
13. Identificazionze PAL/Flip-Flop/ Killer
14. Oscillatore 4,43 MHz
15. Stabilizzatore 9 V.
16. Cancellazione logica Vert. e Orizz.
17. B

W 700 (Hybram)

1. Sync. Seperator
2. V-Pulse Amplifier
3. Phase Correction
4. Burst Detector and Blanking Stage
5. Pulse Output Stage
6. Trigger Pulse Stage
7. Horizontal Oscillator
8. $\Delta\tau$ Switchover AV
9. Phase Comparator

W 700 (Hybram)

1. Seperatore degli impulsi
2. Amplificatore imp. vert.
3. Correzione di fase
4. Separatore burst e cancellazione
5. Stadio uscita impulsi
6. Commutazione e disinserimento impulsi
7. Oscillatore orizzontale
8. Commutatere AV
9. Regolazione fine del comparatore di fase

□	42/51 cm	A51 - 421 X
△	55 cm	A51 JAR 40 X 01 (M)
○	56/67cm	A67-701 X (VC/ITT)
▽	70cm	A66-EAS 00 X01 (VC)
■	70 cm	A66-EAF 00 X01 (ITT)

F 3504

*

	R617	R637	R657
A51-231X	–	–	X
A51-421X	–	X	–
A51-JAR 40X01 (M)	X	X	–
A56-701X (ITT)	–	–	–
A56-701X (VC)	–	–	–
560 ETB 22 -TC 04	X	X	–
A66 EAS 00X01 (VC)	X	–	–
A66 EAF 00X01 (ITT)	–	–	–
A67-701X (VC)	–	X	–
A67-701X (ITT)	–	–	–
670 C2 B22 -TC 04	X	X	–

F 3503

English version